

FIG. 1

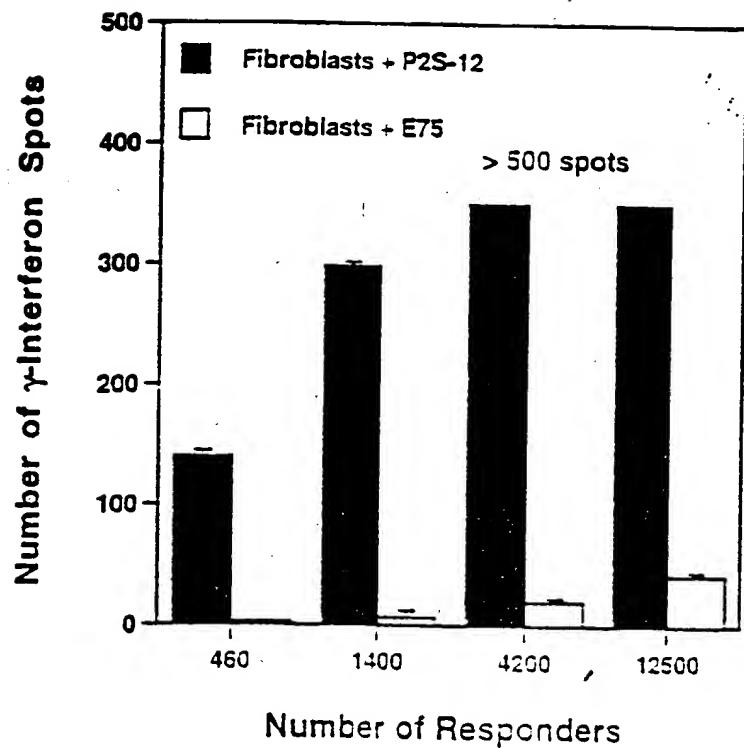


FIG. 2.4

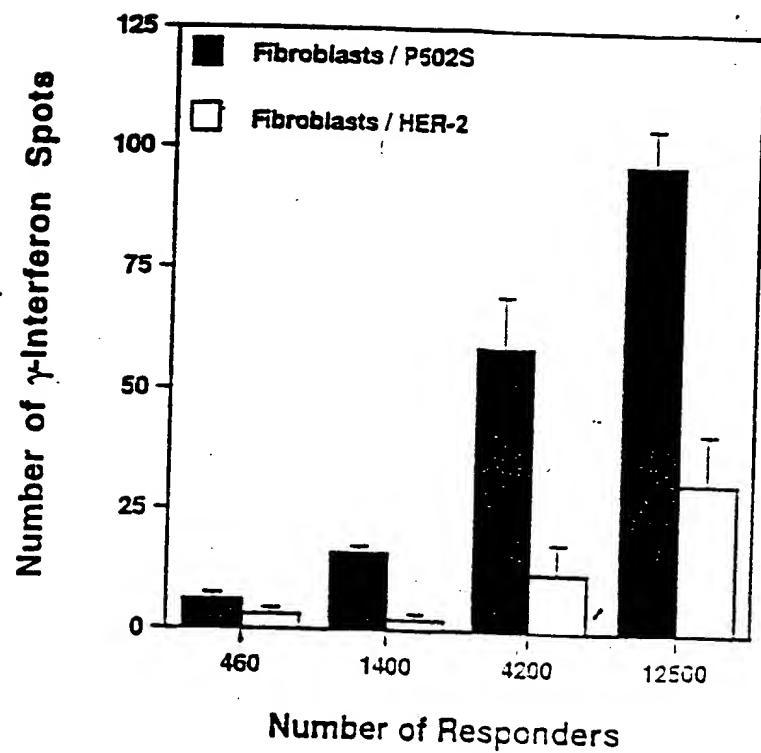


FIG. 2B

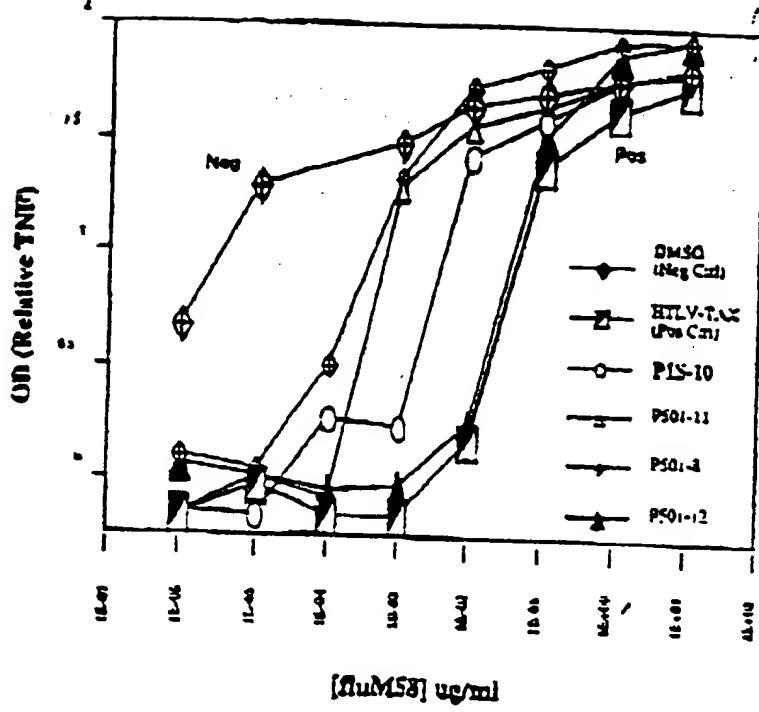


Figure 3

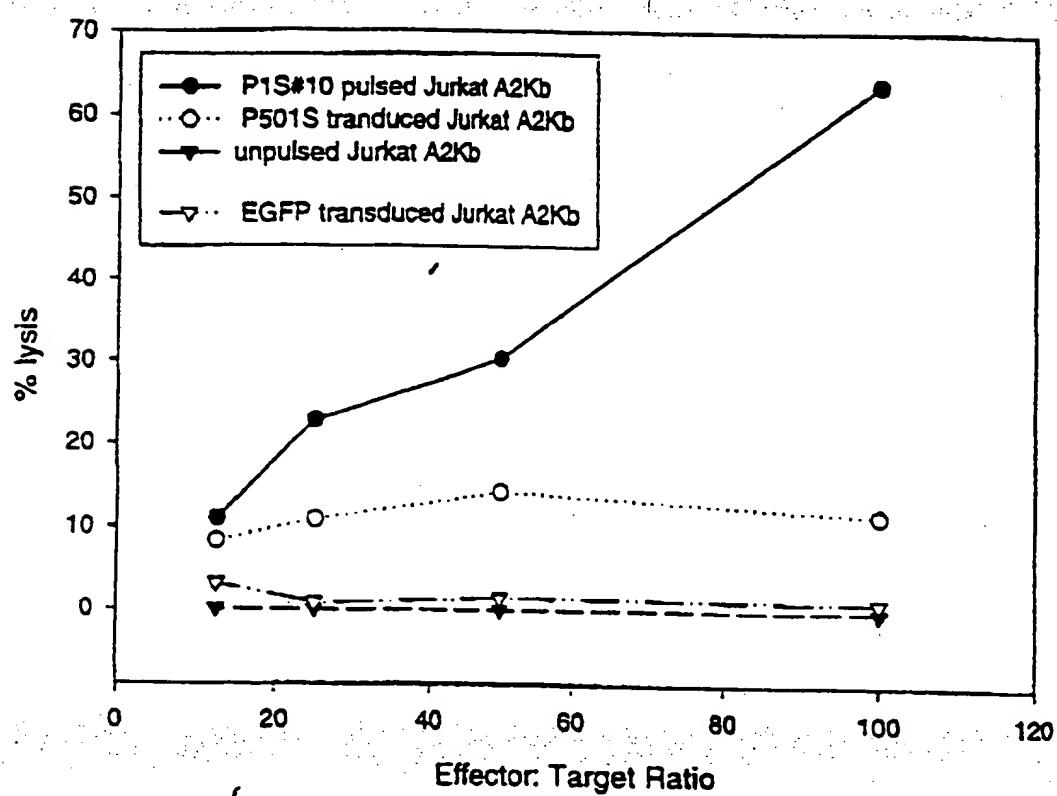


Figure 4

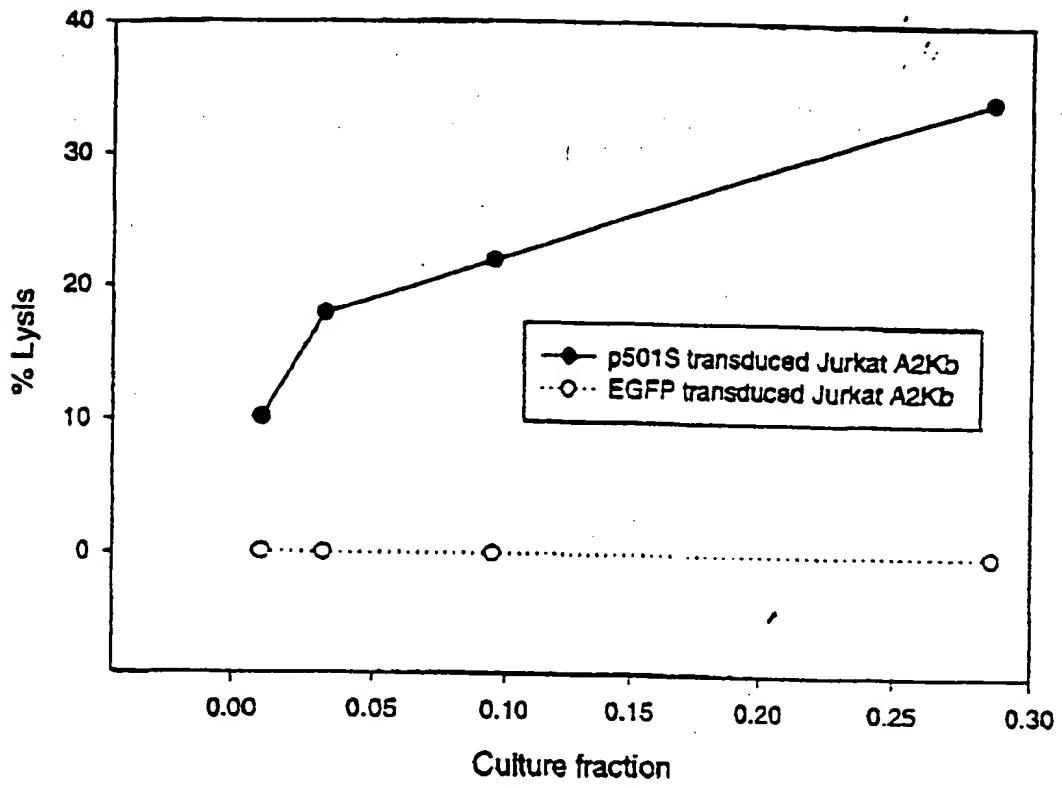
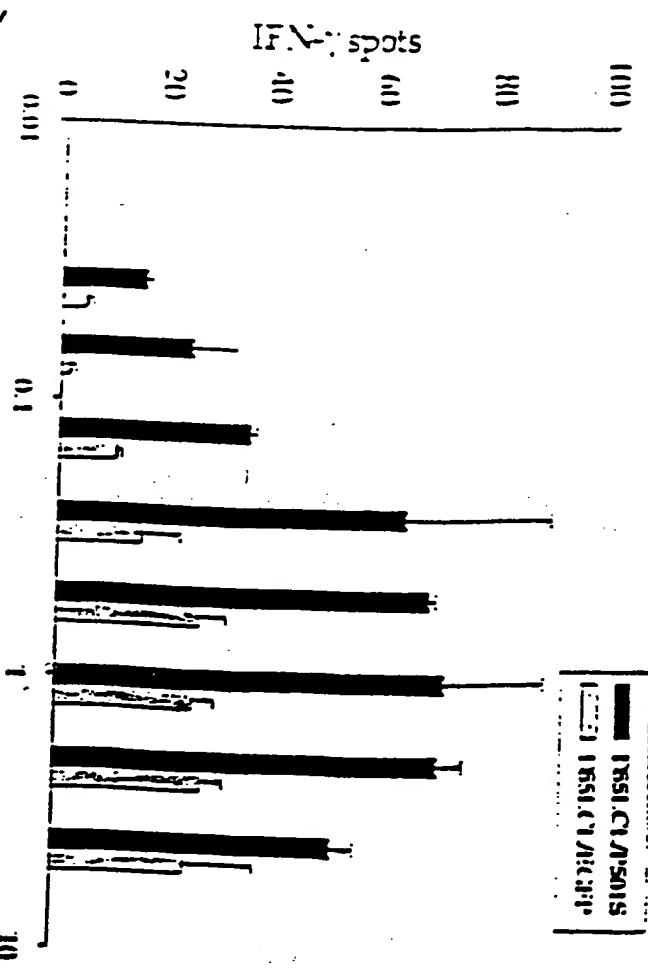
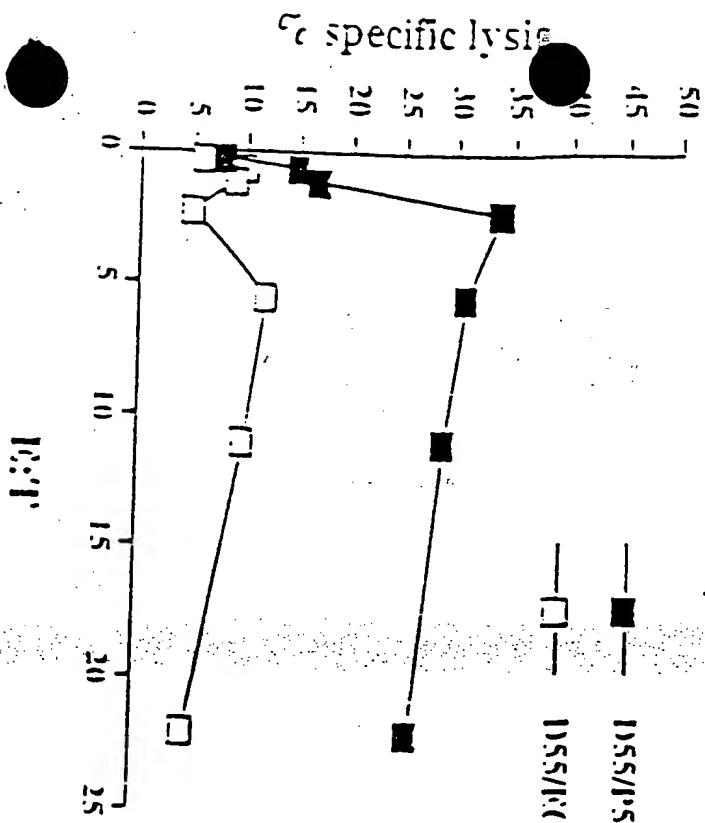
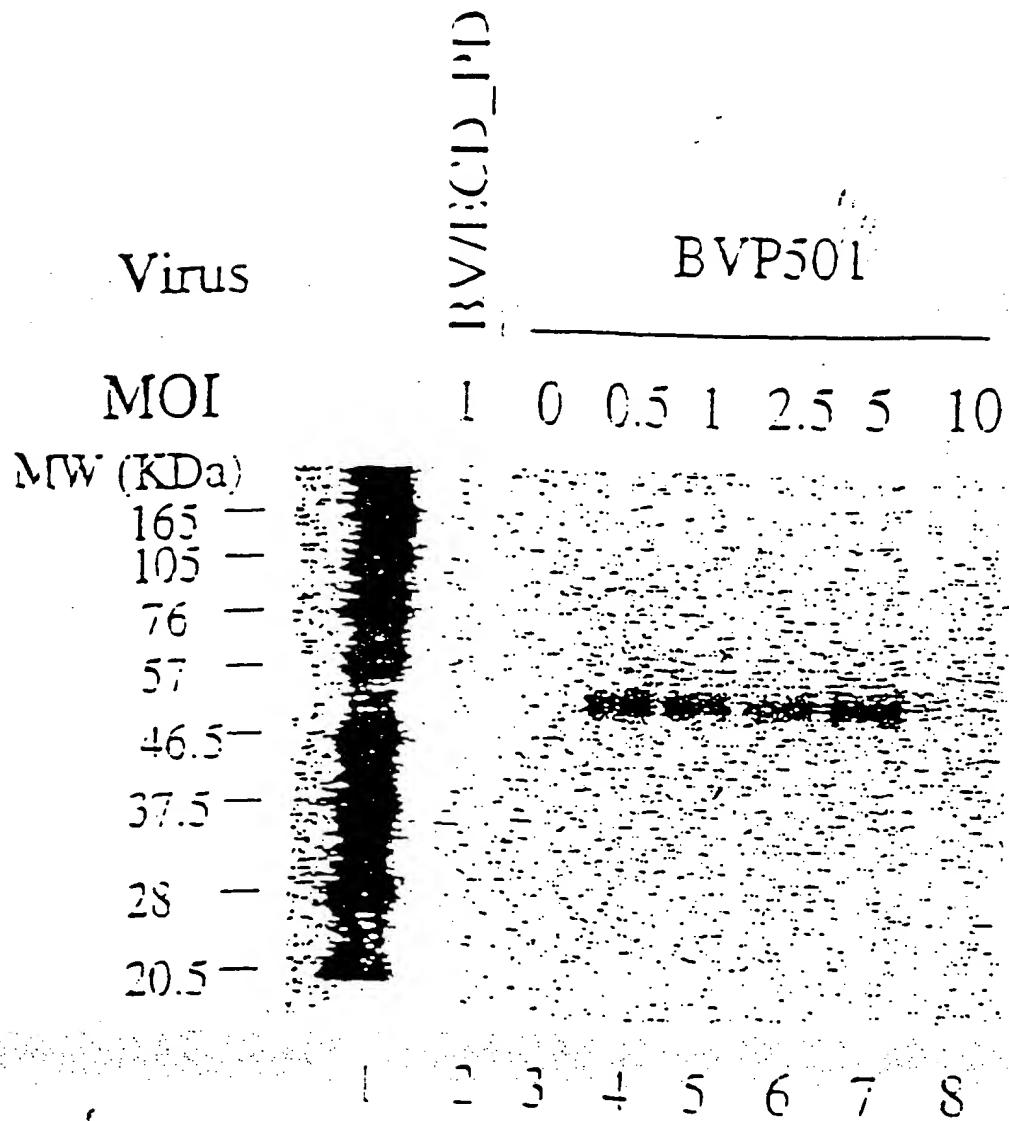


Figure 5



Expression of P501S by the Baculovirus Expression System



0.6 million high titer cells in a 6-well plate were infected with an unrelated control virus BV/ECD_P501 or with recombinant baculovirus for P501 at different MOIs (lane 1 - 5). Cell lysates were run on SDS-PAGE under the reducing condition and analyzed by Western blot with a monoclonal antibody against the P501 protein (P501S-10E3-G4D3). Lane 1 is the biotinylated protein molecular weight marker (Sigma).

Fig. 7

Figure 8. Mapping of the epitope recognized by
10E3-G4-D3

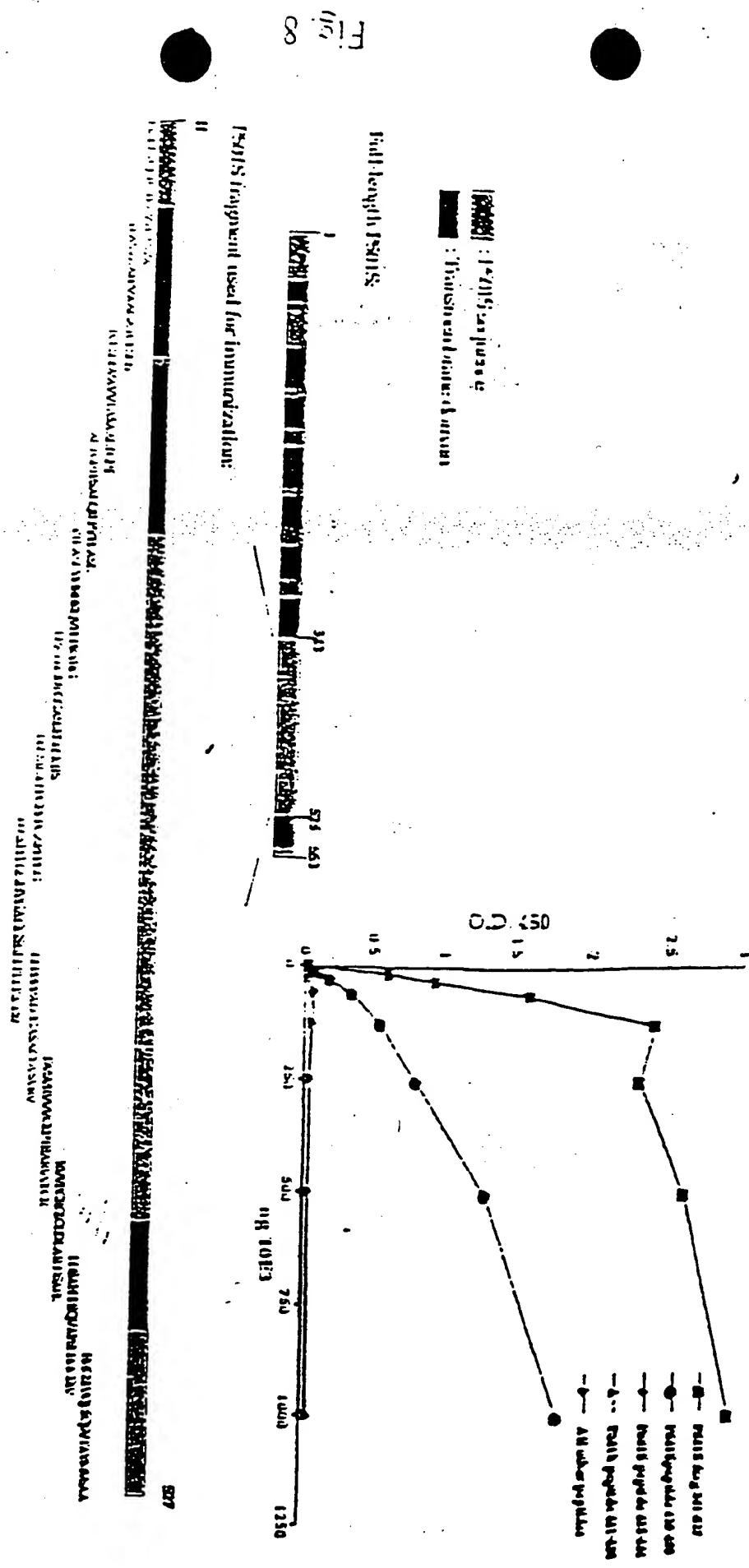


Figure 1. Schematic of P501S with predicted transmembrane, cytoplasmic, and extracellular regions

Underlined sequence: Predicted transmembrane domain; **Bold sequence**: Predicted extracellular domain;
Italic sequence: Predicted intracellular domain. Sequence in bold/underlined: used to generate polyclonal rabbit serum
Localization of domains predicted using IIMTOP (G.I. Tusnady and I. Simon (1998) Principles
of protein domain prediction. *Computers in Molecular Biology* 14: 506.

Genomic Map of (5) *Corixa* Candidate Genes

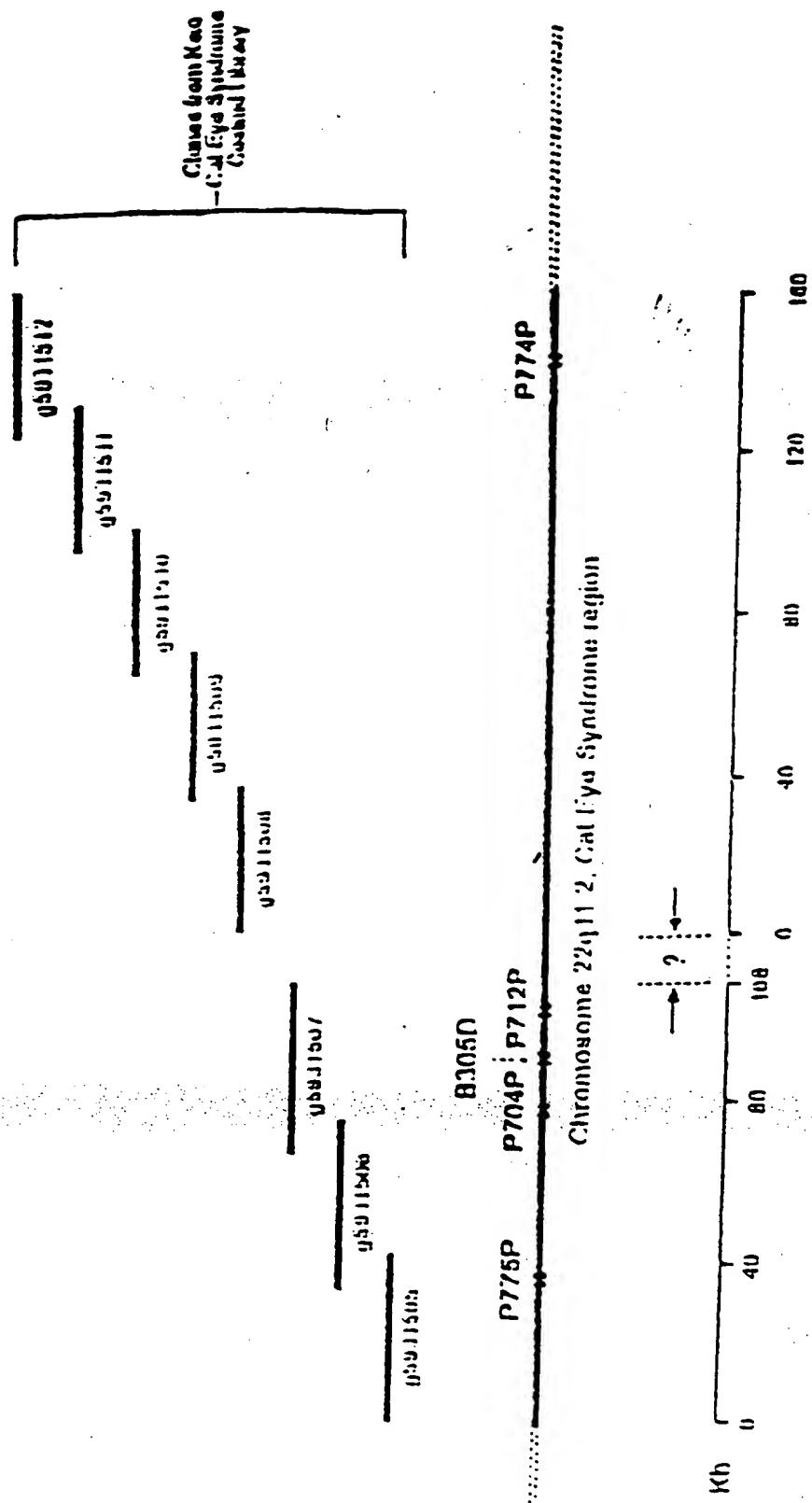
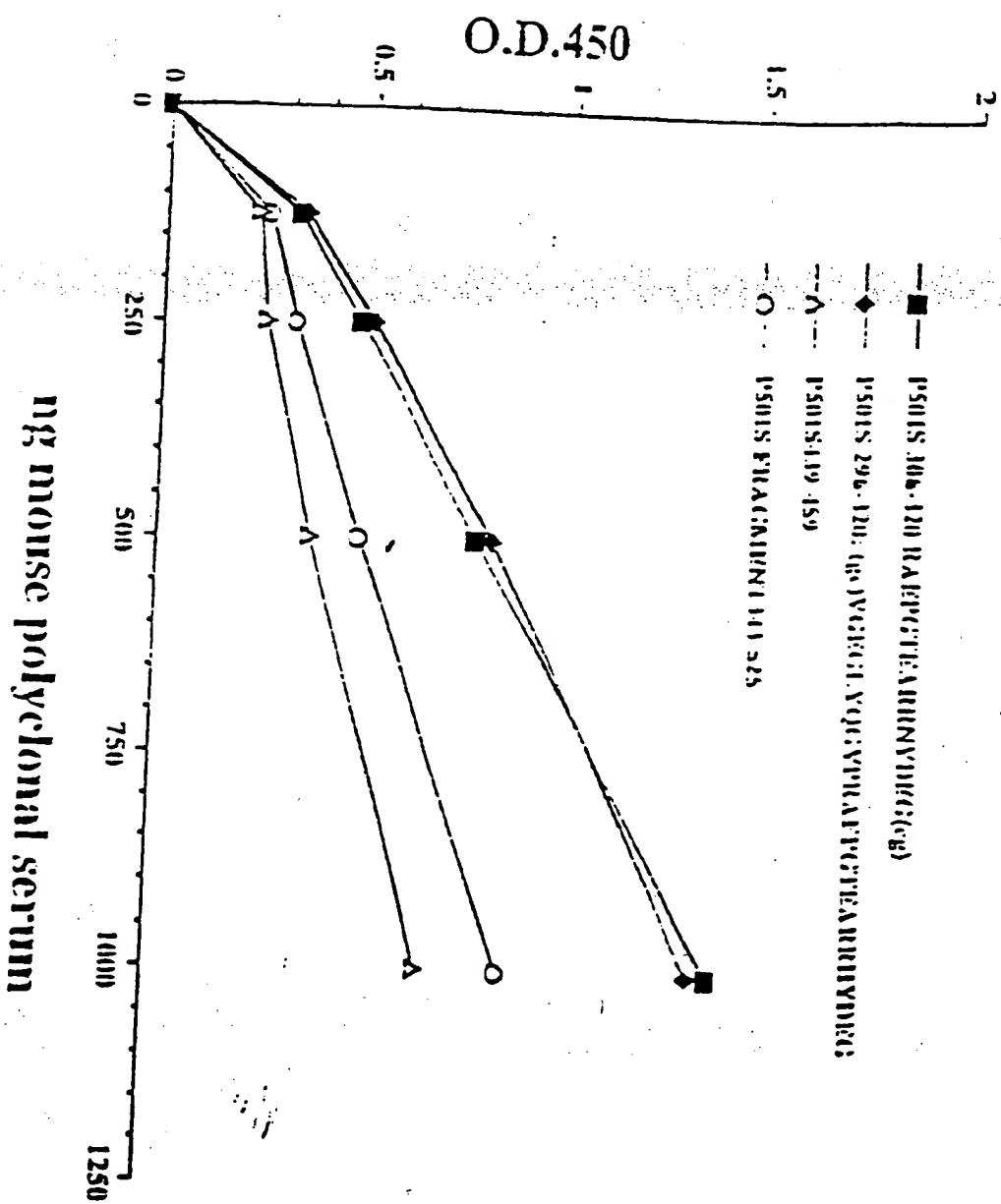


Fig. 10

FIGURE A. Elisa assay of rabbit polyclonal antibody specificity



10 20 30 40 50 60 70
 GTCACTTAGGAAAAGGTGTCTTCGGGCAGCCGGCTCAGCATGAGGAACAGAAGGAATGACACTCTGG 70
 ACAGCACCCGGACCCCTGTACTCCAGCGCGTCTGGAGCACAGACTTGTCTTACACTGAAAGCGACTTGGT 140
 GAATTTATTCAAGCAAATTAAAGAACGAGAATGTGTCCTTACCAAAGATTCCAAGGCCACGGAG 210
 AATGTGTGCAAGTGTGGCTATGCCAGAGCCAGCACATGGAAGGGCACCCAGATCAACCAAAGTGAGAAAT 280
 GGAACATACAAGAACACACCAAGGAATTCTACCGACGCCCTTGGGATATTAGTTGAGACACTGGG 350
 360 370 380 390 400 410 420
 GAAGAAAGGGAAAGTATATACGTCTGTCTCGACACGGACCGGAAATCCTTACGAGCTGCTGACCCAG 420
 CACTGGCAGCTGAAAACAACCAACCTGGTCATTTCTGTGACCGGGGGCGCCAAGAACCTCGCCCTGAAGC 490
 CGCGCATGCGCAAGATCTTACGCCGGCTCATCTACATCGCGCAGTCCAAAGGTGCTTGGATTCTCACGGG 560
 AGGCACCCATTATGGCCTGACGAAGTACATCGGGGAGGTGGTGAGAGATAACACCATCAGCAGGAGTTCA 630
 GAGGAGAAATATTGTGGCATTGGCATATGACGCTTGGGCATGGTCTCCAACCGGGACACCCCTCATCAGGA 700
 710 720 730 740 750 760 770
 ATTGGCGATGCTGAGGGCTATTTAGGCCAGTACCTTATGGAATGACTTCACAAGGGATCCACTGTATAT 770
 CCTGGACAAACAAACACACACATTGCTGCTGGACAAATGGCTGTGATGGACATCCACTGTGCGAACCA 840
 AAGCTCGGAAATCAGCTAGAGAAAGCAATATCTCTGAGCGCACTATTCAAGATTCACAACTATGGTGGCAAGA 910
 TCCCCATGTGTGTTTGGCCAGGGAGGTGGAAAGAGACATTGAAAGCCATCAATACCTOCATCAAAAAA 980
 TAAAATTCTTGTGTGGTGGTGGAAAGGCTCGGGCGGATGCTGATGTGATGCTAGCCTGGTGGAGGTG 1050
 1060 1070 1080 1090 1100 1110 1120
 GAGGATGCCCGACATCTTCTCCGTCAAGGAGAAGCTGGTGGCGTTTACCCCGCAGGGTGTCCGGC 1120
 TGTCTGAGGAGGGAGCTGAGAGTTGGATCAAATGGCTCAAAAGAAATTTCTGAAATGTTCTCACCTATTAAC 1190
 AGTTATTAAATGAGAGAACTGGGGATGAAATTGAGCAATGCCATCTCTACGGCTCTATACAAAGCC 1260
 TTCAAGCACCAGTGAAGCAAGACAAAGGATAACTGAAATGGCGAGCTGAAAGCTTCTGGAGTGGAAACCAGC 1330
 TGGACTTAGCCAATGATGAGATTTCAACCAATGACCGGATGGAGTCTGACCTTCAGAAAGTCA 1400
 1410 1420 1430 1440 1450 1460 1470
 GTTTACGGCTCTCATAAAGGACAGACCAAGTTGCTGGCGCTTCTGGAGAATGGCTTGAACCTACGG 1470
 AAGTTTCTCACCCATGATGCTCACTGAACCTCTCTCAACCCACTTCAGCACGGCTTGTGTAACCGGAATC 1540
 TGCAGATGCCAAGAAATGCCATATAATGATGCGCTCTCACTGCTTGTGAAACTGGTGTGCGAACCTCCG 1610
 AAGAGGGCTTCCGGAAAGGAAGACAGAAATGGCGGGGAGGAGATGGACATAGAACTCCACAGACGTGTCTCT 1680
 ATTACTCGGCACCCCTGCAAGCTCTTCTGAGCTTCTGGAGTCTTCAAGAAATAGAAGGAACCTCTCCAAG 1750
 1760 1770 1780 1790 1800 1810 1820
 TCATTGGAGCAGACCAAGGGGCTGCACTCTGGCAGGCCCTGCGAGCCAGCAAGCTCTGAAGACTCTGGC 1820
 CAAAGTGAAGAACGACATCAATGCTGCTGGGGAGTGGAGGAGCTGGCTAAATGAGTACAGAGAACCCGGGCT 1890
 GTTGAGCTGTTCACTGAGTGGTACAGCAAGCGATGAAAGACTTGGCAGAACAGGCTGCTGGCTATTCTGTG 1960
 AAGCTTGGGTGGAAAGCAACTCTGAGCTGGCGGCTGGAGGCGAACAGACGGATTTGACCGGCCAGCC 2030
 TGGGGTCCAGAAATTCTTCTAAGCAATGGGAAAGAGATTGGAGGAGACACCAAGAACTGGAAAGATT 2100

Fig. 12A (i)

2110 2120 2130 2140 2150 2160 2170

TCCTGTGTCTGTTATTATACCCCTGGTGGGCTGTGGCTTGATCATTAGGAAGAACCTGTCGACA 2170
AGCACAAAGAAGCTGCTTGGTACTATGTGGGTTCTTCACCTCCCCCTCGTGGTCTTCTCTGGAAATGT 2240
GGTCTTCTACATCGCCTTCTGCTGTTGGCTACGTGCTGCTCATGGATTTCATTGGTGCACAC 2310
CCCCCGAGCTGCTCTGTACTCCCTGGTCTTGTCTTGTGATGAACTCAGACAGTGGTACGTAA 2380
ATGGGGTGAATTATTTACTGACCTGTGGAATGTGATGGACACGCTGGGGCTTTTACTTCATAGCAGG 2450

2460 2470 2480 2490 2500 2510 2520

AATTGTATTTGGCTCCACTCTTCTAATAAAAGCTTTGTATTCTGGACGAGTCATTTCTGTCTGGAC 2520
TACATTATTTCACTCTAAGATTGATCCACATTAACTGTAAAGCAGAAACCTAGGACCCAAGATTATAA 2590
TGCTGCAGAGGAIGCTGATCGATGTGTCTTCTGTTCTCTTGCAGTGGATGGTGGCCTTGG 2660
CGTGGCCAGGCAAGGGATCTTAGGCAGAATGAGCAGGCTGGAGGTGGATATTCCGTTGGTCATCTAC 2730
GAGCCCTACCTGGCCATGTTGGCCAGGTCGGAGTGAACGCTGGATGGTACCGTATGACTTGCCCCACT 2800

2810 2820 2830 2840 2850 2860 2870

GCACCTTCACTGGGAATGAGTCCAAGCCACTGTGTGGAGCTGGATGAGCACACCTGCCCGGTTCCC 2870
CGAGTGGATCACCATCCCCCTGGTGTGCATCTACATGTTATCCACCAACATCCTGCTGGTCAACCTGCTG 2940
GTCGCCATGTTGGCTACACGGTGGCACCGTCCAGGAGAACATGAGCAGGTCTGGAAGTTCAGAGGT 3010
ACTTCCCTGGTCAAGGAGTACTGCAAGCCGCTGAAATACTCCCTTCCCTCATCGTCTTGGCTTACCTCTA 3080
CATGGTGGTGAAGAAGTGGCTTCAAGTGGTGGTGGAAAGGAGAACATGGAGTCTTGTCTGGTTTC 3150

3160 3170 3180 3190 3200 3210 3220

AAAAATGAAAGCAATGAGACTCTGGCATGGAGGGTTGATGAAAGGAAACATACCTGTCAGATCAACA 3220
CAAAAGCCAAACGAGACACCTGAGGAAATGAGGCACTGGATGAAACATGCTTAAATGATCT 3290
CAAGGGCTTCTGAAAGAGATTGCTTAAATGAAATGAAAGCTGATGAAACCTGAAACTCTAATGGAGAAAGATC 3360
TAATTATAGCAAGATCATATTAAGGAATGCTGATGAAACCTTGGCTATGACTACTAAAAGAGAGATT 3430
TCAGACCCCTGGGTACATGGTGGATGATTTAAATGAGGCTAGTGTGCTGAGACCTTGAGAAATAAGTGT 3500

3510 3520 3530 3540 3550 3560 3570

GTGATTGGTTTCACTTGAAGACGGATATAGGAAGGAAATTTCTTATGTTCTCCAGAATGGT 3570
GCTGTCTTCTGCTGCTCACTGGCTGGGACTGGAGGTTGATAGTTAAGTGTGTCTTACCGCCTCC 3640
TTTTTCTTTAACTCTTATTTGATGAAACACAAATATAGGAGAACATCTATCTATGAAATAAGAACCTGG 3710
TCATGCTTCACTCTGTATTGTTATTTGCTCATCTCAATTGATTCTACTTTCCCTTTGTATT 3780
ATGTGACTAATTAGTGGCATATTGTTAAAGCTCTCAATTAGGCCAGATTCTAAACATGCTGCAGC 3850

3860 3870 3880 3890 3900 3910 3920

AAGAGGACCCGCTCTTCAAGGAAAGTGTCTTCACTTCTAGGATGCTCTTACCTGTCAGAGGAGGT 3920
GACAAAGGCACTGCTCTTGTCTCTTGGACTCAACGGCTCTTATGGAGGAACCAACCCCCATTCTAAATA 3990
TGTGAAAGTGGCCAAATGCAACCTGAAAGGCACACTGACTTTCTTCTTATGGATACTCTCTTA 4060
TTTATTATTTCTGATTAAGGCTATTAGGCTATTAGAAATTTAGACCATACAGAGATGTAGAAA 4130
GAACATAAAATTGTCGGCATTTACCTTAAGGAAACTGCTAACAATTCTGGATGGTTTCTCAAGTCTAT 4200

4210 4220 4230 4240 4250 4260 4270

TTTTTTCTATGATGTCATTCTGTTCAATTGTTCAAAATTTACAGAATGTTATCATACTACATATATACTTT 4270
TTATGTAAGCTTTTCACTTGTAGTATTGTTATGAAATGTTTATTATATTCTAGCCTTCCTAACACATT 4340
ATATCAATAATTGCAATAATAGGCAACCTGAGGATTTGCTATGAGGCTATCTCCAG 4410
TTGATGATTGGGATGAGGATGATGAAACTCTTGTGATTGGGAAATTTGCAAGGTTAG 4480
ATTCGAATAAAATCTATTATTAAATTAAATTGCTATTATTAAACCAATTCTGGATGGTTTCTCAAGTCTAT 4550

Fig. 12A(3)

10 20 30 40 50 60 70

MRNRRNQTLOSTRTLYSSASRSTQESYSESOLVNFIDQANFKKRECFFKDSKAEVCKCGYAQSQHME 70
GTQINQSEKWNYKKHTKEFPITOAFGQIQFETLGKKGKYIRLSCOTDAEILYELLQHWHLKTPNLVISVT 140
GGAKNFAALKPRMRKIFSRLIYIAQSKGAWILTTGGHYGLTKYIGEVVRONTISRSSEENIVAIIGIAAWGM 210
VSNRDTLIRNCOAEGYFLACYLMDQFTROPLYILDNNHLLLVDNGCHGHPTEAKLRNQLEKHISERT 280
IQDSNYGGKIPIVCFAQGGKETLKAINTSIKNA:PCVYVEGSGRIAODVIASLVEVEDAPTSSAVKEKLV 350

360 370 380 390 400 410 420

RFLPRTVSRLSEEETESWIKWLKEILECSHLLTVIKMEEAGDEIYSNAISYALYKAFSTSEQQKONWNGQ 420
LKLLLEWNQDOLANDEIFTNORRWESADQEVMTALIKDRPKFYRLFLENGLNLRKFLLTHOVLTEFSN 490
HFSTLVYRNLCIAKNSYNQALLTFVWKLVANFRRGFRKEDRNGRQEMOIELHCVSPITRHPLQALFIWAI 560
LQNKKELSKVIEWCTRGCTLAALGASKLLKTLAKVKNOINAAGESEELANEYETRAVELFTECYSEEDL 630
AEQLLVYSCAWGGSNCLELAVEATDQHFTAQPGYONFLSKQWYGEISRDTKNWKIILCLFIIPLYVGCDF 700

710 720 730 740 750 760 770

VSFRKKPVCKHKKLLWYYVAFFTSPFVVFSWNVVFYIAFLLLFAVYVLLMDFHSVPHPPELVLYSLVYLF 770
CDEYRQWYVNGVNYFTDLWNVMOTLGLFYFIAQIVFRLHSBNKGSILYSGRYIFCLDYIIFTLRLIHTFTV 840
SRNLGPKIIMLORMMLIDVFFFLLFAVWMVAFGVYARCGILRQNECRWRWIFRSVIYEPLYALMFGQVPSDV 910
DGTTYDFAHCTFTGNESKPLCVELDEHNLPRFPEVITIPLVCIYMLSTNILLVNLLVAMFGYTVGTGEN 980
NOCVWKFCRYFLVGEYCSRLNIPFPFIVFAYFMYVKKCFKCCCKEKNMESSVCCFKNEQNETLAWEGVM 1050

1060 1070 1080 1090 1100 1110 1120

0 100 200 300 400 500 600 700 800 900 1000

TKENYLVKINTKANDTSEEMRHRFRQLODTKLNELKGLKEIANKIK. 1096

Fig. 12B